

# Global Post Quantum Cryptography Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB85F315504BEN.html>

Date: December 2025

Pages: 118

Price: US\$ 3,480.00 (Single User License)

ID: GB85F315504BEN

## Abstracts

According to our (Global Info Research) latest study, the global Post Quantum Cryptography Chip market size was valued at US\$ 141 million in 2025 and is forecast to a readjusted size of US\$ 495 million by 2032 with a CAGR of 19.5% during review period.

In 2025, global Post Quantum Cryptography Chip production reached approximately 14.5 k units with an average global market price of around US\$9,500 per unit. Single-line annual production capacity averages 600 units with a gross margin of approximately 23-25%. The upstream of the Post Quantum Cryptography Chip includes categories such as quantum-resistant algorithms, secure crypto-processors, and specialized hardware, predominantly focused in the high-tech and cybersecurity sectors. Downstream applications are spread across healthcare (15%), finance (30%), national defense and military (20%), critical infrastructure (25%), and other fields (10%). The demand and business opportunities for Post Quantum Cryptography Chips are driven by the critical need to protect data security against future quantum attacks, with key opportunities lying in the development of new encryption standards and the integration of quantum-resistant technologies into existing systems.

A Post Quantum Cryptography Chip is engineered to safeguard digital communications against the potential threats posed by quantum computers, which are capable of breaking many of the cryptographic algorithms currently in use. This specialized chip incorporates quantum-resistant algorithms that have been rigorously tested and proven to withstand attacks from quantum computers, ensuring the security and integrity of sensitive data. By leveraging advanced cryptographic techniques, the chip provides a robust defense mechanism against quantum threats, making it a critical component for

securing future digital infrastructure.

This report is a detailed and comprehensive analysis for global Post Quantum Cryptography Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Post Quantum Cryptography Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Post Quantum Cryptography Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Post Quantum Cryptography Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Post Quantum Cryptography Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Post Quantum Cryptography Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Post Quantum Cryptography Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung, SEALSQ, Jmem Tek, NXP, ResQuant, Suzhou C\*Core Technology, Beijing Sansec Technology, Zhengzhou Xinda Yimi Technology, Shanghai Turing Intelligent Computing Quantum Technology, Wuxi MUCSE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Post Quantum Cryptography Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

MCU

SoC

### Market segment by IC Core

RISC-V Core

Arm Core

### Market segment by Application

Healthcare

Finance

Critical Infrastructure

Others

#### Major players covered

Samsung

SEALSQ

Jmem Tek

NXP

ResQuant

Suzhou C\*Core Technology

Beijing Sansec Technology

Zhengzhou Xinda Yimi Technology

Shanghai Turing Intelligent Computing Quantum Technology

Wuxi MUCSE

Wuhan Yixin Microelectronics

#### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Post Quantum Cryptography Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Post Quantum Cryptography Chip, with price, sales quantity, revenue, and global market share of Post Quantum Cryptography Chip from 2021 to 2026.

Chapter 3, the Post Quantum Cryptography Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Post Quantum Cryptography Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Post Quantum Cryptography Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Post Quantum Cryptography Chip.

Chapter 14 and 15, to describe Post Quantum Cryptography Chip sales channel, distributors, customers, research findings and conclusion.

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